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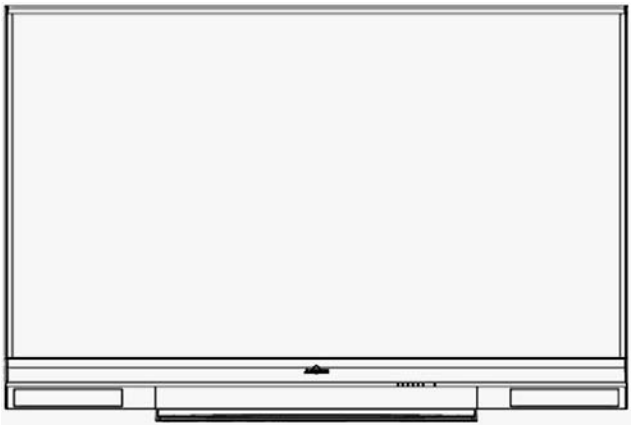
MITSUBISHI ELECTRIC

Service Manual



DLP PROJECTION HDTV

V45C	**V45**	**V45CA**
WD-73C11	WD-73640	WD-73CA1
V45+	**V45++**	**V45CB**
WD-73740 WD-82740	WD-73840 WD-82840 WD-92840	WD-82CB1

Pb Solder

CAUTION:
Before servicing this chassis, it is important that the service person read the "SAFETY PRECAUTIONS" and "PRODUCT SAFETY NOTICE" contained in this manual.

SPECIFICATIONS

- **Power Input** : AC 120V, 60Hz
- **Light Engine** : DLP™ (1080p)
- **Light Source** : VIP Lamp
- **Antenna Input** : RF 75Ω unbalanced
- **Tuning** : NTSC/ATSC/QAM
  : Analog Cable - 1~125
  Digital Cable - 1~135
- **Speakers** : 10W x 2 (except V45++)
  : 2W x 16 (V45++)

- See Page 5 for additional specifications.

- Design specifications are subject to change without notice.

- **Analog Input Level** : Composite/Component (RCA Type)
  Y/Video: 1.0 Vp-p, Cr, Cb: 700mVp-p
  75Ω unbalanced
  : AUDIO IN JACK (RCA Type)
  -4.7dBm 43kΩ unbalanced
- **Analog Output Level** : AUDIO / SUBWOOFER OUT JACK (RCA Type)
  -4.7dBm 4.7kΩ unbalanced
- **Digital Inputs/Outputs** : AC-3/PCM Digital Audio Output (RCA Type)
  : HDMI™
  : USB
  : PC - use HMDI™
  : Wired IR Input/Output (V45++)
  : Ethernet (V45CB, V45+, V45++)
  : Bluetooth (V45++)

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Version 3.0

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INTRODUCTION

This service manual provides service instructions for the V45C, V45, V45CA, V45+, V45CB and V45++ chassis types. The specific models for each chassis type, dimensions and weight are listed below. Service personnel should read this manual thoroughly before servicing these chassis.

MODEL	CHASSIS	HEIGHT	WIDTH	DEPTH	WEIGHT	POWER USAGE
WD-73C11	V45C	43.6"	65.0"	17.5"	77.9 lbs	260W
WD-73640	V45	43.6"	65.0"	17.5"	77.9 lbs	260W
WD-73CA1	V45CA	43.6"	65.0"	17.5"	77.9 lbs	270W
WD-73740	V45+	43.6"	65.0"	17.5"	77.9 lbs	270W
WD-82740	V45+	48.7"	73.3"	19.8"	129.9 lbs	270W
WD-82CB1	V45CB	48.7"	73.3"	19.8"	129.9 lbs	270W
WD-73840	V45++	43.6"	65.2"	17.5"	83.6 lbs	290W
WD-82840	V45++	48.7"	73.2"	19.8"	133.6 lbs	275W
WD-92840	V45++	54.8"	82.1"	22.0"	195.1 lbs	290W

This service manual includes:

1. Disassembly & replacement instructions for cabinet and chassis components.
2. Replacing the Lenticular Screen, Fresnel Lens and Mirror.
3. Initial setup and troubleshooting.
4. Service adjustments.
5. Using lead free solder.
6. Chip parts replacement procedures.
7. Replacement part Instructions
8. Replacement parts list
9. Circuit block diagrams
10. Schematic diagrams

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have special safety characteristics are identified on the schematic diagrams and parts list of this service manual. **The replacement for any safety critical part should be identical in value and characteristics.**

The PWBs used in this chassis are constructed using Lead-Free Solder. **When servicing use only recommended Lead-Free Solder. Refer to the section "Using Lead Free Solder."**